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## What is claimed is:

1. A reversible ratchet-type wrench comprising:

a handle;

a head extended from the handle and including a hole, a web being defined between the handle and the head, a cavity being defined in the web and communicated with the hole, the web further including a compartment having a first end communicated with the cavity and a second end communicated with outside, thereby leaving a bridge in the web;

a drive member rotatably mounted in the hole of the head, the drive member including a plurality of teeth formed on an outer periphery thereof;

a pawl mounted in the cavity and including a first side with a plurality of ratchet teeth for releasably engaging with the teeth of the drive member;

a switch member including a turn-piece for manual operation and an actuating plate extended from the turn-piece and rotatably received in the second end of the compartment of the web, the switch member being switchable between two positions for changing ratcheting direction of the drive member; and

a biasing means mounted in the cavity and between the pawl and the actuating plate for biasing the ratchet teeth of the pawl to engage with the teeth of the drive member.

- 2. The reversible ratchet-type wrench as claimed in claim 1, wherein an inner periphery defining the hole of the head includes a first annular groove, and wherein the outer periphery of the drive member includes a second annular groove, further comprising a C-clip received in the first annular groove and the second annular groove, thereby rotatably retaining the drive member in the head.
- 3. The reversible ratchet-type wrench as claimed in claim 1, wherein the biasing means includes an elastic element and a peg, the pawl further including a second side with a recess, the peg having a first end movably received in the recess of the pawl and a second end, the elastic element biasing the second end of the peg for exerting a force to the peg toward the pawl, thereby urging the ratchet teeth of the pawl to engage with the teeth of the gear wheel.

- 3 end received in the receptacle and a second end outside the receptacle and configured to be
- 4 attached to the actuating plate, the second end of the peg being received in the elastic element,
- 5 the first end of the elastic element being configured to bias the second end of the peg toward
- 6 the recess of the pawl.

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- 5. The reversible ratchet-type wrench as claimed in claim 4, wherein the drive member is a
- 8 gear wheel including an inner periphery adapted to drive a fastener.
  - 6. The reversible ratchet-type wrench as claimed in claim 4, wherein the drive member includes a drive column for releasably engaging with a socket.
  - 7. The reversible ratchet-type wrench as claimed in claim 6, wherein the head includes an end wall with an opening, and wherein the drive member includes a stub rotatably received in the opening.
  - 8. The reversible ratchet-type wrench as claimed in claim 3, wherein the actuating plate of the switch member includes a first receptacle that faces the cavity, the first receptacle having a first end wall, the second end of the peg being received in the first receptacle and including a second receptacle with a second end wall, the elastic element having two ends that are attached between the first end wall and the second end wall.
- 9. The reversible ratchet-type wrench as claimed in claim 8, wherein the drive member is a gear wheel including an inner periphery adapted to drive a fastener.
- 21 10. The reversible ratchet-type wrench as claimed in claim 9, wherein the drive member
- includes a drive column for releasably engaging with a socket.
- 23 11. The reversible ratchet-type wrench as claimed in claim 10, wherein the head includes an
- 24 end wall with an opening, and wherein the drive member includes a stub rotatably received in
- 25 the opening.
- 26 12. The reversible ratchet-type wrench as claimed in claim 1, wherein the drive member is a
- gear wheel including an inner periphery adapted to drive a fastener.

- 1 13. The reversible ratchet-type wrench as claimed in claim 1, wherein the drive member includes a drive column for releasably engaging with a socket.
- 14. The reversible ratchet-type wrench as claimed in claim 13, wherein the head includes an end wall with an opening, and wherein the drive member includes a stub rotatably received in the opening.
  - 15. A reversible ratchet-type wrench comprising:

a handle;

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a head extended from the handle and including a hole, a web being defined between the handle and the head, a cavity being defined in the web and communicated with the hole, the web further including a compartment communicated with the cavity;

a drive member rotatably mounted in the hole of the head, the drive member including a plurality of teeth formed on an outer periphery thereof;

a pawl mounted in the cavity and including a first side with a plurality of ratchet teeth for releasably engaging with the teeth of the drive member, the pawl further including a second side with a recess;

a switch member including a turn-piece for manual operation and an actuating plate extended from the turn-piece and rotatably received in the compartment of the web, the switch member being switchable between two positions for changing ratcheting direction of the drive member; and

a biasing means mounted in the cavity and between the recess of the pawl and the actuating plate for biasing the ratchet teeth of the pawl to engage with the teeth of the drive member, the biasing means including an elastic element and a peg, the peg having a first end movably received in the recess of the pawl and a second end, the elastic element biasing the second end of the peg for exerting a force to the peg toward the pawl, thereby urging the ratchet teeth of the pawl to engage with the teeth of the gear wheel;

the actuating plate of the switch member including a receptacle that faces the cavity, the elastic element including a first end received in the receptacle and a second end outside the

- receptacle and configured to be attached to the actuating plate, the second end of the peg being 1
- received in the elastic element, the first end of the elastic element being configured to bias the 2
- second end of the peg toward the recess of the pawl. 3
- 16. The reversible ratchet-type wrench as claimed in claim 15, wherein the drive member is a 4
- gear wheel including an inner periphery adapted to drive a fastener. 5
- 17. The reversible ratchet-type wrench as claimed in claim 15, wherein the drive member 6
- includes a drive column for releasably engaging with a socket. 7
- 18. The reversible ratchet-type wrench as claimed in claim 17, wherein the head includes an 8
  - end wall with an opening, and wherein the drive member includes a stub rotatably received in
- the opening.
  - 19. The reversible ratchet-type wrench as claimed in claim 15, wherein an inner periphery
  - defining the hole of the head includes a first annular groove, and wherein the outer periphery
  - of the drive member includes a second annular groove, further comprising a C-clip received in
  - the first annular groove and the second annular groove, thereby rotatably retaining the drive
  - member in the head.
- 20. The reversible ratchet-type wrench as claimed in claim 15, wherein the compartment of the
- web has a first end communicated with the cavity and a second end communicated with 17
- outside, thereby leaving a bridge in the web. 18
- 21. A reversible ratchet-type wrench comprising: 19
- 20 a handle;
- a head extended from the handle and including a hole, a web being defined between the 21
- handle and the head, a cavity being defined in the web and communicated with the hole, the 22
- web further including a compartment communicated with the cavity; 23
- a drive member rotatably mounted in the hole of the head, the drive member including a 24
- plurality of teeth formed on an outer periphery thereof; 25

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for releasably engaging with the teeth of the drive member, the pawl further including a second side with a recess;

extended from the turn-piece and rotatably received in the compartment of the web, the switch member being switchable between two positions for changing ratcheting direction of the drive

member; and

second end of the peg for exerting a force to the peg toward the pawl, thereby urging the

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a switch member including a turn-piece for manual operation and an actuating plate

a biasing means mounted in the cavity and between the recess of the pawl and the

actuating plate for biasing the ratchet teeth of the pawl to engage with the teeth of the drive member, the biasing means including an elastic element and a peg, the peg having a first end movably received in the recess of the pawl and a second end, the elastic element biasing the

ratchet teeth of the pawl to engage with the teeth of the gear wheel;

the actuating plate of the switch member including a first receptacle that faces the cavity, the first receptacle having a first end wall, the second end of the peg being received in the first receptacle and including a second receptacle with a second end wall, the elastic element having two ends that are attached between the first end wall and the second end wall.

a pawl mounted in the cavity and including a first side with a plurality of ratchet teeth

22. The reversible ratchet-type wrench as claimed in claim 21, wherein the drive member is a gear wheel including an inner periphery adapted to drive a fastener.

23. The reversible ratchet-type wrench as claimed in claim 21, wherein the drive member includes a drive column for releasably engaging with a socket.

24. The reversible ratchet-type wrench as claimed in claim 23, wherein the head includes an end wall with an opening, and wherein the drive member includes a stub rotatably received in the opening.

25. The reversible ratchet-type wrench as claimed in claim 21, wherein an inner periphery defining the hole of the head includes a first annular groove, and wherein the outer periphery of the drive member includes a second annular groove, further comprising a C-clip received in

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the first annular groove and the second annular groove, thereby rotatably retaining the drive

2 member in the head.

26. The reversible ratchet-type wrench as claimed in claim 21, wherein the compartment of the web has a first end communicated with the cavity and a second end communicated with

outside, thereby leaving a bridge in the web.

27. A reversible ratchet-type wrench comprising:

a handle;

a head extended from the handle and including a hole, a web being defined between the handle and the head, a cavity being defined in the web and communicated with the hole, the web further including a compartment communicated with the cavity;

a drive member rotatably mounted in the hole of the head, the drive member including a plurality of teeth formed on an outer periphery thereof;

a pawl mounted in the cavity and including a first side with a plurality of ratchet teeth for releasably engaging with the teeth of the drive member, the pawl further including a second side with a recess;

a switch member rotatably received in the compartment of the web, the switch member being switchable between two positions for changing ratcheting direction of the drive member; and

a biasing means mounted in the cavity and having a first end slidably received in the recess of the pawl and a second end attached to the switch member for biasing the ratchet teeth of the pawl to engage with the teeth of the drive member.

28. The reversible ratchet-type wrench as claimed in claim 27, wherein an inner periphery defining the hole of the head includes a first annular groove, and wherein the outer periphery of the drive member includes a second annular groove, further comprising a C-clip received in the first annular groove and the second annular groove, thereby rotatably retaining the drive member in the head.

- 1 29. The reversible ratchet-type wrench as claimed in claim 27, wherein the biasing means
- 2 includes an elastic element and a peg, the peg having a first end movably received in the
- 3 recess of the pawl and a second end, the elastic element biasing the second end of the peg for
- 4 exerting a force to the peg toward the pawl, thereby urging the ratchet teeth of the pawl to
- 5 engage with the teeth of the gear wheel.
- 30. The reversible ratchet-type wrench as claimed in claim 29, wherein the switch member
- 7 includes a turn-piece for manual operation and an actuating plate extended from the turn-piece
- and rotatably received in the compartment of the web, the actuating plate of the switch
  - member includes a receptacle that faces the cavity, the elastic element including a first end
  - received in the receptacle and a second end outside the receptacle and configured to be
  - attached to the actuating plate, the second end of the peg being received in the elastic element,
  - the first end of the elastic element being configured to bias the second end of the peg toward
  - the recess of the pawl.
  - 31. The reversible ratchet-type wrench as claimed in claim 30, wherein the drive member is a
  - gear wheel including an inner periphery adapted to drive a fastener.
- 32. The reversible ratchet-type wrench as claimed in claim 30, wherein the drive member
- includes a drive column for releasably engaging with a socket.
- 18 33. The reversible ratchet-type wrench as claimed in claim 32, wherein the head includes an
- 19 end wall with an opening, and wherein the drive member includes a stub rotatably received in
- the opening.
- 21 34. The reversible ratchet-type wrench as claimed in claim 30, wherein the actuating plate of
- 22 the switch member includes a first receptacle that faces the cavity, the first receptacle having a
- first end wall, the second end of the peg being received in the first receptacle and including a
- 24 second receptacle with a second end wall, the elastic element having two ends that are
- attached between the first end wall and the second end wall.

- 35. The reversible ratchet-type wrench as claimed in claim 30, wherein the compartment of the
- 2 web has a first end communicated with the cavity and a second end communicated with
- 3 outside, thereby leaving a bridge in the web.
- 4 36. The reversible ratchet-type wrench as claimed in claim 27, wherein the drive member is a
- 5 gear wheel including an inner periphery adapted to drive a fastener.
- 6 37. The reversible ratchet-type wrench as claimed in claim 27, wherein the drive member
- 7 includes a drive column for releasably engaging with a socket.
- 38. The reversible ratchet-type wrench as claimed in claim 37, wherein the head includes an
  - end wall with an opening, and wherein the drive member includes a stub rotatably received in
  - the opening.
  - 39. The reversible ratchet-type wrench as claimed in claim 27, wherein the compartment of the
  - web has a first end communicated with the cavity and a second end communicated with
  - outside, thereby leaving a bridge in the web.